CLASSIFICATION AND CORRELATION

OF

THE SOILS OF

FRANKLIN COUNTY INDIANA

NOVEMBER 1984



U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
MIDWEST NATIONAL TECHNICAL CENTER
LINCOLN, NEBRASKA

UNITED STATES DEPARTMENT OF AGRICULTURE Soil Conservation Service Midwest National Technical Center Lincoln, Nebraska 68508-3866

> Classification and Correlation of the Soils of Franklin County, Indiana

The field correlation and final field review for the soil survey of Franklin County, Indiana was held at Indianapolis, Indiana, February 27, March 2, and 5-7, 1984. Participating in the final field review were Jerry Shively, soil survey party leader, and William Hosteter, Indianapolis State Office. The data reviewed consisted of the first draft of the soil survey manuscript, correlation samples, field sheets, map unit notes, laboratory data, and SCS-SOILS-5 forms. Roger L. Haberman, soil correlator, MNTC, participated in the comprehensive field review on October 24-28, 1983. The field correlation was reviewed by Roger L. Haberman during April 1984. Several items were discussed with William Hosteter, soil specialist, Indiana. The final correlation decisions were based on the draft manuscript, field notes, copies of field sheets, laboratory data, SCS SOILS-6's, correlation samples, and the field correlation.

Headnote for the Detailed Soil Survey Legend

Map symbols consist of a combination of letters or of letters and numbers. The first capital letter is the initial one of the map unit name. The lowercase letter that follows separates map units having names that begin with the same letter, except that it does not separate sloping or eroded phases. The second capital letter indicates the class of slope. Symbols without a slope letter are for nearly level soils or miscellaneous areas. A final number of 2 indicates that the soil is moderately eroded and a number 3 indicates that the soil is severely eroded.

SOIL CORRELATION OF FRANKLIN COUNTY. INDIANA

Field	: Field map	Publi-	Approved map
symbols		cation: symbol	unit name
MeA	<pre>! !Martinsville loam, 0 ! to 2 percent slopes !</pre>		Alvin sandy loam, 0 to 2 percent slopes
MeB2	Martinsville loam, 2 to 6 percent slopes, eroded		Alvin sandy loam, 2 to 6 percent slopes
AVA, AVB	: Avonburg silt loam, 0 to 2 percent slopes,		Avonburg silt loam, 0 to 2 percent slopes
HkF	Hickory Loam, 25 to 50 percent slopes		Bonnell loam, 25 to 50 percent slopes
Hk C2	Hickory silt loam, 6 to 12 percent slopes, eroded	•	Bonnell silt loam, 6 to 12 percent slopes, eroded
HkD2, BnD2	Hickory Loam, 12 to 18 percent slopes, eroded	•	Bonnell silt loam, 12 to 18 percent slopes, eroded
HkE2	Hickory loam, 18 to 25 percent slopes, eroded	:	Bonnell silt loam, 18 to 25 percent slopes, eroded
Hm D3	Hickory clay loam, 12 to 18 percent slopes, severely eroded	:	-
BnC3	Bonnell silty clay loam, 6 to 12 percent slopes, severely eroded	•	Bonnell silty clay loam, 6 to 12 percent slopes, severely eroded
CbC2, CbD2, CbC3	Carmel silt loam, 6 to 12 percent slopes, eroded	:	Carmel silt loam, 6 to 12 percent slopes, eroded
CkB2	Cincinnati silt loam, 2 to 6 percent slopes, eroded	CkB2	Cincinnati silt loam, 2 to 6 percent slopes, eroded

FRANKLIN CCUNTY. INDIANA -- Continued

Field symbols	unit name		Approved map unit name
	Cincinnati silt loam, 6 to 12 percent slopes, eroded		Cincinnati silt loam, 6 to 12 percent slopes, eroded
	Cincinnati silt loam, 6 to 12 percent slopes, severely eroded		Cincinnati silt loam, 6 to 12 percent slopes, severely eroded
Cm	Cobbsfork silt loam	C m	Cobbsfork silt loam
CoG, FaG	Corydon Variant silt Loam, 18 to 50 percent slopes	:	Corydon silty clay loam, 18 to 50 percent slopes
Cy, Ra, Tr	Cyclone silt loam	Cy	Cyclone silt loam
Db	Dearborn loam, frequently flooded		Dearborn loam, frequently flooded
EdE2, EdE3	Eden silty clay loam, 15 to 25 percent slopes, eroded	:	Eden flaggy silty clay, 15 to 25 percent slopes, eroded
EdG	Eden silty clay loam, 25 to 60 percent slopes	1	Eden very flaggy silty clay, 25 to 60 percent slopes, stony
EeD2	Edenton silt Loam, 12 to 18 percent slopes, eroded		Edenton silt loam, 12 to 18 percent slopes, eroded
FoA	Fox loam, 0 to 2 percent slopes	ELA	Eldean loam, 0 to 2 percent slopes
FoB	Fox loam, 2 to 6 percent slopes		Eldean loam, 2 to 6 percent slopes
FcB, FcA	Fincastle silt loam, 1 to 3 percent slopes	FcB	Fincastle silt Loam• 1 to 3 percent 1 slopes

FRANKLIN CCUNTY. INDIANA -- Continued

	- NAME IN COUNTY INDIA		
Field symbols	: unit name		Approved map unit name
FfA, ReA	Fincastle-Reesville silt loams, 0 to 1 percent slopes		Fincastle-Reesville silt loams, 0 to 1 percent slopes
FxC3	Fox complex, 6 to 12 percent slopes, severely eroded	:	Fox complex, 6 to 15 percent slopes, severely eroded
Gd	Gessie Variant Loam, rarely flooded		Gessie Loam, sandy substratum, rarely flooded
G e	Gessie Variant Loam, occasionally flooded		Gessie Loam, sandy substratum, occasionally flooded
He G	Hennepin loam, 25 to 60 percent slopes		Hennepin Loam, 25 to 60 percent slopes
Ht	Holton silt loam, ccasionally flooded		Holton silt loam, ccasionally flooded
MmB2	Miami silt Loam, 2 to 6 percent slopes, eroded	:	_
MmC2	Miami silt loam, 6 to 12 percent slopes, eroded	•	Miami silt loam, 6 to 12 percent slopes, eroded
MmD2	Miami silt loam, 12 to 18 percent slopes, eroded	:	Miami silt loam, 12 to 18 percent slopes, eroded
MoC3	Miami clay loam, 6 to 12 percent slopes, severely eroded	•	<pre>!Miami clay loam, 6 to ! 12 percent slopes, ! severely eroded</pre>
MoD3	Miami clay Loam, 12 to 18 percent slopes, severely eroded		Miami clay loam, 12 to 18 percent slopes, severely eroded
Mr	<pre> Milford silty clay . Loam</pre>	Mr:	:Milford silty clay : loam

FRANKLIN CCUNTY, INDIANA -- Continued

Field symbols	unit name	Publi- cation symbol	
Ss	: Stonelick Variant sandy loam, rarely flooded		Moundhaven sandy loam, rarely flooded
st	Stonelick sandy loam, occasionally flooded	•	Moundhaven sandy loam, occasionally flooded
OcA	Ockley loam, 0 to 2 percent slopes		Ockley loam, 0 to 2 percent slopes
0 c B2	Ockley loam, 2 to 6 percent slopes, eroded		Ockley loam, 2 to 6 percent slopes, eroded
Lm, Lb, Ln	Lobdell silt loam, ccasionally flooded	_	Oldenburg silt loam, occasionally flooded
Pø	:Pits, gravel	Pg	Pits, gravel
Ph	: !Pits, quarries	Ph	Pits, quarries
PrC2	Princeton fine sandy Loam, 4 to 12 percent slopes, eroded	:	Princeton fine sandy loam, 4 to 12 percent slopes
RKF	Rodman gravelly sandy loam, 35 to 60 percent slopes	:	Rodman gravelly coarse sandy loam• 35 to 60 percent slopes
Rm• Rn	Ross silt loam, rarely flooded		Ross silt loam, rarely flooded
RsA	Rossmoyne silt loam, 1 0 to 2 percent 1 slopes	:	Rossmoyne silt loam, 0 to 2 percent slopes
RsB2	Rossmoyne silt loam, 2 to 6 percent slopes, eroded	:	Rossmoyne silt Loam, 2 to 6 percent slopes, eroded
Ru32	<pre>: Russell silt loam, 1 ! to 6 percent slopes, ! eroded</pre>	:	Russell silt loam, 1 to 6 percent slopes, eroded

FRANKLIN CCUNTY, INDIANA -- Continued

Field symbols	unit name		Approved map unit name
	Russell silt loam, bedrock substratum, 0 to 2 percent slopes		Russell silt loam, bedrock substratum, O to 2 percent slopes
	Russell silt loam, bedrock substratum, 2 to 6 percent slopes		Russell silt loam, bedrock substratum, 2 to 6 percent slopes
	Sidell silt loam, 1 to 4 percent slopes		Sidell silt loam, 1 to 4 percent slopes
	Uniontown silt loam, moderately wet, 2 to 8 percent		Uniontown silt loam, moderately wet, 2 to 8 percent slopes
UnE2	Uniontown silt loam, 15 to 25 percent slopes, eroded		
WeC3	Weisburg silt loam, 2 to 6 percent slopes, eroded	•	_
	Williamstown silt Loam, 1 to 4 percent slopes	:	
Wn, Ch	<pre></pre>		Wirt loam, ccasionally flooded
	<pre>Woolper silty clay Loam, 1 to 6 percent slopes</pre>	:	Woolper silty clay loam, 1 to 6 percent slopes
WyB, WyB2, WyA	Wynn silt loam, 1 to 6 percent slopes		Wynn silt loam, 1 to 6 percent slopes
WyC2	Wynn silt loam, 6 to 12 percent slopes, eroded	WrC2	Wynn silt loam, 6 to 12 percent slopes, eroded

FRANKLIN COUNTY, INDIANA -- Continued

Field symbols	: Field map unit name	Publi- cation symbol	unit name
WyC3	Wynn silt loam, 6 to 12 percent slopes, severely eroded	•	Wynn silty clay loam, 6 to 12 percent slopes, severely eroded
ΧnΑ	Xenia silt loam, 0 to 2 percent slopes		Xenia silt loam, 0 to 2 percent slopes
XnB2	<pre>!Xenia silt loam, 2 to ! 6 percent slopes, ! eroded !</pre>		<pre>!Xenia silt loam, 2 to ! 6 percent slopes, ! eroded !</pre>

Series Established by This Correlation:

Moundhaven (type location in Franklin County, Indiana) Oldenburg (type location in Franklin County, Indiana)

Series Dropped or Made Inactive:

None

Certification Statement:

The state soil scientist certifies that:

- 1. Mapping was completed in July 1983.
- 2. The detailed maps and general soils map are joined with adjacent counties and that all discrepancies have been noted and are on file at the Indiana State Office and in the MNTC. In the general soil map joins there is generally at least one commonly named soil or the areas coming in from adjoining counties are too small to extend into Franklin County as they would be of very minor extent there. On the detailed joins, in general, where names differ, use and management are similar.
 - 3. Interpretations have been coordinated.
- 4. Typical pedons are in soil areas using the reference name. The legal descriptions of the location of the typical pedons are correct.

Verification of Exact Cooperator Names:

The following will be on the front of the publication:

United States Department of Agriculture
Soil Conservation Service
in cooperation with
Purdue University Agricultural Experiment Station
and
Indiana Department of Natural Resources
Soil and Water Conservation Committee

The citation in the box on the inside of the front cover will read:

"This survey was made cooperatively by the Soil Conservation Service, Purdue University Agricultural Experiment Station, and the Indiana Department of Natural Resources, Soil and Water Conservation Committee. It is a part of the technical assistance furnished to the Franklin County Soil and Water Conservation District. Financial assistance was made available by the Franklin County Board of County Commissioners."

Disposition of Original Atlas Field Sheets:

The original atlas field sheets for Franklin County will be retained by the Indiana State Office, and will be used in the map compilation and finishing procedures. Copies have been made for fire protection purposes. The state office at Indianapolis will prepare the atlas sheets for publication by February 1986.

Prior Soil Survey Publications:

A reference to the 1950 soil survey of Franklin County, Indiana, will be made in the introduction of this publication. An example of how this might be done follows:

The first soil survey of Franklin County was made in 1950 (reference citation). This survey updates the first survey and provides additional information and larger maps that show the soils in greater detail.

Soil survey of Franklin County, Indiana, O.C. Rogers, in charge, and A. J. Vessel, and G. M. Brune, U.S. Department of Agriculture, and T. E. Barnes, Purdue University Agricultural Experiement Station, 128 pp., illus., 1950.

Instructions for Map Finishing:

The conventional and special symbols used in this survey are listed on the attached SCS-37A. These are the only symbols that will be shown on the published maps. The maps will be finished using the "Guide for Soil Map Finishing." July 1976.

State:

10

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

Soil Survey Area: _

Indiana

CONVENTIONAL AND SPECIAL Franklin County SYMBOLS LEGEND SYMBOLS LEGEND

Date: 10/83

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
CULTURAL FEATURES	3	CULTURAL FEATURE	S (cont.)	SPECIAL SYMBOLS FOR SOIL SURVEY	₹ .
BOUNDARIES		MISCELLANEOUS CULTURAL FEATURE	3	SOIL DELINEATIONS AND SOIL SYMBOLS	
National, state, or province		Farmsteed, house (omit in urban areas)	•	ESCARPMENTS COA	FoB2
County or parish		Church	å	Bedrock (points down slope)	44445484444444444444444
Minor civil division		School	\$	Other than bedrack (points down slope)	######################################
Reservation (national forest or park,				SHORT STEEP SLOPE	000000000000000
state forest or park, and large airport)				GULLY	^^^^
				DEPRESSION OR SINK	♦
Field sheet matchline & neatline					
AD HOC BOUNDARY (label)				MISCELLANEOUS	
Small airport, airfield, park, cilfleld,					
		WATER FEATURES			
STATE COORDINATE TICK I 890 000 FEET		DRAINAGE		Gravelly spot	•
LAND DIVISION CORNERS (sections and land grants)	L + -L	Perennial, double line			
ROADS	•	Perennial, single line			
Divided (median shown if scale permits)		Intermittent	·		
County, farm or ranch		Drainage end		Rock outcrop (includes sandstone and sha	ile) 🗸
		Canals or ditches			
ROAD EMBLEMS & DESIGNATIONS	-			Sandy spot	• •
Interstate	68	Drainage and/or irrigation		Severely eroded spot	=
Federal -	287				
State	52				
		LAKES, PONDS AND RESERVOIRS		RECOMMENDED AD HOC SOIL SYMBOLS	
RAILROAD		Perennial	water w		
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
		MISCELLANEOUS WATER FEATURES		Less than 5 acres wi	th
				bedrock at 20 to 60	
				inches	#
				Landfill—each symbol represents 5 acres	
		1		less. The landfill	
			•	will be outlined wi	
DAMS		Wet spot	*	a dashed line on the	e
Large (to scale).				field sheets.	
Medium or small	W W			Cut & Fill-each symbo	
				represents 5 acres	or
PITS				less	
Gravel pit	×				
Mine or quarry	*				

#### SOIL SURVEY FRANKLIN COUNTY, INDIANA

#### PRIME FARMLAND

(Only the soils considered prime farmland are listed. Urban or built-up areas of the soils listed are not considered prime farmland. If a soil is prime farmland only under certain conditions, the conditions are specified in parentheses after the soil name)

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Map !
                              Soil name
symboli
ALA
      :Alvin sandy loam, 0 to 2 percent slopes
      :Alvin sandy loam, 2 to 6 percent slopes
ALB
      :Avonburg silt loam, D to 2 percent slopes (where drained)
A \vee A
      :Cincinnati silt loam, 2 to 6 percent slopes, eroded
CkB2
      (Cobbsfork silt Loam (where drained)
C m
      (Cyclone silt loam (where drained)
Су
ELA
     ¡Eldean loam, 0 to 2 percent slopes
ELB
      :Eldean loam, 2 to 6 percent slopes
      Fincastle silt loam, 1 to 3 percent slopes (where
FcB
      : drained)
      :Fincastle-Reesville silt loams, 0 to 1 percent slopes
FfA
      : (where drained)
Gd
      iGessie loam, sandy substratum, rarely flooded
      iGessie loam, sandy substratum, occasionally flooded
Gе
      !Holton silt loam, occasionally flooded (where drained)
Ht
      :Miami silt loam, 2 to 6 percent slopes, eroded
MmB2
      iMilford silty clay loam (where drained)
Mr
      :Ockley loam, 0 to 2 percent slopes
0 c A
      lockley loam, 2 to 6 percent slopes, eroded
OcB2
0 g
      :Oldenburg silt loam, occasionally flooded
      iRoss silt loam, rarely flooded
R m
RSA
      Rossmoyne silt loam, 0 to 2 percent slopes
RsB2
      !Rossmoyne silt loam, 2 to 6 percent slopes, eroded
      !Russell silt loam, 1 to 6 percent slopes, eroded
RuB2
RVA
      Russell silt loam, bedrock substratum, 0 to 2 percent
      : slopes
      Russell silt loam, bedrock substratum, 2 to 6 percent
RVB
      slopes
      iSidell silt loam, 1 to 4 percent slopes
SdB
      :Uniontown silt loam, moderately wet, 2 to 8 percent
UaB
      : slopes
      !Weisburg silt loam, 2 to 6 percent slopes, eroded
WeB2
      :Williamstown silt loam, 1 to 4 percent slopes
WmB
      :Wirt loam, occasionally flooded
Wn
      :Woolper silty clay loam, 1 to 6 percent slopes
WOB
WrB
      :Wynn silt loam. 1 to 6 rercent slopes
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# SOIL SURVEY FRANKLIN COUNTY, INDIANA

# PRIME FARMLAND -- Continued

Map symbol			(	Soil name	
				percent percent	eroded

Approved: November 1, 1984

RODNEY F. HARNER Head, Soils Staff

Midwest NTC

# CONVERSION LEGEND FOR FRANKLIN COUNTY. INDIANA

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Field symbol	Publi- cation symbol	Field	Publi- cation symbol	Field	Publi- cation symbol	Field	Publi- cation symbol
AVA AVB BnC3 BnD2 CaB	BrC3 BoD2	MeA MeB2 MmB2 MmC2 MmD2	MmC2	WyB2 WyC2 WyC3 XnA XnB2	WrB WrC2 WyC3 XnA XnB2		
CbC2 CbC3 CbD2 Ch CkB2	CpC5	MoC3 MoD3 Mr OcA OcB2	MoC3 MoD3 Mr OcA OcB2				
CkC2 CkC3 Cm CoG		Pg Ph PrC2 Ra ReA	Pg Ph PrC Cy FfA				
DaB Db EdE2 EdE3 EdG	SdB Db EbE2 EbE2 EdG	RkF Rm Rn RsA RsB2	RKF Rm Rm RsA RsB2				
EeD2 FaG FcA FcB FfA	EeD2 CoG FcB FcB FfA	RuB2 RvA RvB Ss	RuB2 RvA RvB Mt				
FoA FoB FxC3 Gd Ge	ELA ELB FxC3 Gd Ge	Tr UaB UnA UnB2 UnC2	Cy UaB UaB UaB UnD2				
HeG HkC2 HkD2 HkE2 HkF	HeG BoC2 BoD2 BoE2 BnF	UnD2 UnE2 WeB2 WeC2 WeC3	UnD2 UnD2 WeB2 WeB2 WeB2				-
HmD3 Ht Lb	BpD3 Ht Og	WmB Wn WoB	WmB Wn WoB		·		

CLASSIFICATION OF PEDONS SAMPLED FOR LABORATORY ANALYSIS

1. Data from the Purdue Laboratory with SCS-SOILS-8 forms.

Sampled as	Pedon Sample No.	Publication Symbol	Approved Series Name or Classification
Avonburg	S81IN47-1	AvA	Avonburg 1/
Carmel	S81IN47-3	CbC2	$Carmel \frac{1}{}$
Cincinnati	S81IN47-2	CkB2	Cincinnati; fragipan slightly thicker than maximum for series; and the glacial till lacks coarse fragments
Clermont	S81IN47-4	Cm	Cobbsfork 1/ slightly more clay in lower B horizon than allowed for the series; and the subsoil includes extremely acid
Corydon Variant	S81IN47-18	CoG	Corydon taxadjunct 1/ Loamy, mixed, mesic Lithic Hapludoll
Eden	S81IN47-12	EdG	Eden taxadjunct 1/ Fine, mixed, mesic Typic Eutrochrept
Edenton	S81IN47-17	EeD2	Edenton taxadjunct 1/ Fine-loamy, mixed, mesic Typic Hapludalf
Fox	S81IN47-13	E1A	$Eldean \frac{1}{}$
Gessie Variant	S81IN47-5	Ge	Gessie taxadjunct 1/ Fine-silty, mixed, (calcareous) mesic Typic Udifluvent
Hickory	S81IN47-6	BoE2	Bonnell ^{1/} ; slightly thinner Bt horizon and less clay in the C horizon than recognized for the series
Martinsville	S81IN47-16	A1A	Alvin 1/; less acid in the Bt and having free carbon-ates higher in the profile than recognized for the series

Miami	S81IN47-14	MmB2	$Miami\frac{1}{}$
Princeton	S82IN47-7	PrC	Princeton 1/
Rossmoyne	S81IN47-8	RsB2	Rossmoyne 1/; partly formed in silty glacial drift not described in official series. Also more acid in some part of the solum than recognized for the series.
Russell	S81IN47-9	RuB2	Russell
Woolper	S82IN47-6	WoB	Woolper taxadjunct 1/ Fine, mixed, mesic Typic Hapludoll
Wynn	S81IN47-10	WrB2	Wynn taxadjunct; Fine-silty, mixed, mesic Typic Hapludalf

2. Data from the National Soil Survey Laboratory with SCS-SOILS-8 forms.

Lobdell Variant	S83IN-47-001	0g	Oldenburg $\frac{1}{2}$
Stonelick	S82-IN-047-010	Mx	Moundhaven $\frac{1}{2}$

Notes to Accompany Classification and Correlation of the Soils of Franklin County, Indiana

by William Hosteter and Roger L. Haberman

ALVIN SERIES

These soils are typically less acid and have free carbonates at shallower depths than recognized for the series. They are not considered to be taxadjuncts.

Eroded is deleted from the name of the mapping unit AlB. There is no sign of the soil being eroded in the mapping unit description. In addition, they have a thicker solum than the Alvin soils on slopes of less than 2 percent. Eroded had not been listed as a critical phase on the SCS-SOILS-6 form.

AVONBURG SERIES

These soils formed in 40 to 48 inches of silty loess and the underlying silty drift of unknown origin. They are more acid in the subsoil than recognized for the series. They are not taxadjuncts.

BONNELL SERIES

These soils typically have thinner Bt horizons and less clay in the C horizon than recognized for the series. In addition, the soil in mapping unit BnF and BnD3 have sola less than 50 inches thick. The soils are not taxadjuncts.

CINCINNATI SERIES

The soils in mapping unit CkB2 and CkC2 have a slightly thicker loess mantle than recognized for the series. All units have part of the subsoil formed in gritty silts of unknown origin. In addition, the glacial till in all units lack coarse fragments. The soils are not taxadjuncts.

COBBSFORK SERIES

These soils have a slightly lower reaction in parts of the Bt horizon than is allowed in the range for the series. In addition, the lower B horizons contain more clay than recognized for the series. The soils are not taxadjuncts.

CORYDON SERIES

The Corydon soils are taxadjuncts to the series in that they are less clayey and lack an argillic horizon. They are loamy, mixed, mesic Lithic Hapludolls.

EDEN SERIES

The Eden soils are taxadjuncts to the series in that they lack an argillic horizon. The soils are fine, mixed, mesic Typic Eutrochrepts.

EDENTON SERIES

The Edenton soils are taxadjuncts to the series in that they are less clayey. The soils are fine-loamy, mixed, mesic Typic Hapludalfs.

FINCASTLE SERIES

These soils are slightly less acid in the Bt horizon than recognized for the series, however, the soils are not considered taxadjuncts.

FOX SERIES

The C horizon includes gravelly loamy coarse sand in the upper part.

GESSIE SERIES

The Gessie soils in mapping unit Ge are taxadjuncts to the series in that they contain less sand. The soils are fine-silty, mixed (calcareous), mesic Typic Udifluvents.

MIAMI SERIES

The Miami soils in mapping unit MoD3 have slightly thinner solums than recognized for the series, however, the soils are not considered to be taxadjuncts.

MOUNDHAVEN SERIES

The Moundhaven series is established by this correlation. Approximately 2,700 acres are in this survey area.

OCKLEY SERIES

These soils are less acid in the upper Bt horizon than recognized for the series, however, the soils are not considered taxadjuncts.

OLDENBURG SERIES

The Oldenburg series is established by this correlation. Approximately 1,900 acres are in this survey area. These soils have been correlated as taxadjuncts to the Lobdell series in some survey areas.

REESVILLE SERIES

These soils are less acid in the E and upper Bt horizon than recognized for the series. In addition, they have chroma of 6 in the Bt and C horizon. The soils are not considered taxadjuncts.

ROSSMOYNE SERIES

These soils are more acid in some horizons, lack mottles in the Bx horizon, and have formed partially in silty glacial drift, all of which are outside the series. The soils are not considered to be taxadjuncts.

UNIONTOWN SERIES

The soils in mapping unit UaB have a thicker solum than recognized for the series. In addition, the soils have chroma of 3 in the upper Bt horizon. They are not taxadjuncts.

WEISBURG SERIES

These soils have slightly thinner sola and less depth to bedrock than recognized for the series. In addition, they are mildly alkaline and calcareous in the lower solum. They are not considered to be taxadjuncts.

WILLIAMSTOWN SERIES

These soils have a slightly thinner Bt horizon than recognized for the series.

WIRT SERIES

These soils lack coarse fragments below depths of 40 inches.

WOOLPER SERIES

The Woolper soils are taxadjuncts to the series in that they lack an argillic horizon. The soils are fine, mixed, mesic Typic Hapludolls.

WYNN SERIES

The Wynn soils in mapping unit WrB are taxadjuncts to the series in that they are less clayey. The soils are fine-silty, mixed, mesic Typic Hapludalfs.

SOIL SURVEY FRANKLIN COUNTY. INDIANA

CLASSIFICATION OF THE SOILS

(An asterisk in the first column indicates a taxadjunct to the series. See notes for a description of those characteristics of this taxadjunct that are outside the range of the series)

Soil name	Family or higher taxonomic class
:	
Alvin:	Coarse-loamy, mixed, mesic Typic Hapludalfs
Avonburg:	Fine-silty, mixed, mesic Aeric Fragiaqualfs
Bonnell:	Fine, mixed, mesic Typic Hapludalfs
Carmel:	Fine, vermiculitic, mesic Typic Hapludalfs
Cincinnati:	Fine-silty, mixed, mesic Typic Fragiudalfs
Cobbsfork:	Fine-silty, mixed, mesic Typic Ochraqualfs
*Corydon:	Clayey, mixed, mesic Lithic Argiudolls
Cyclone:	Fine-silty, mixed, mesic Typic Argiaquolls
Dearborn:	Loamy-skeletal, mixed, mesic Fluventic
	Hapludolls
	Fine, mixed, mesic Typic Hapludalfs
*Edenton:	Fine, mixed, mesic Typic Hapludalfs
	Fine, mixed, mesic Typic Hapludalfs
	Fine-silty, mixed, mesic Aeric Ochraqualfs
	Fine-loamy over sandy or sandy-skeletal, mixed,
	mesic Typic Hapludalfs
	Fine-loamy, mixed (calcareous), mesic Typic
-	Udifluvents
	Fine-Loamy, mixed, mesic Typic Eutrochrepts
	Coarse-loamy, mixed, nonacid, mesic Aeric
	Fluvaquents
	Fine-loamy, mixed, mesic Typic Hapludalfs
	Fine, mixed, mesic Typic Haplaquolls
	Sandy, mixed, mesic Typic Udifluvents
	Fine-loamy, mixed, mesic Typic Hapludalfs
	Coarse-Loamy, mixed, nonacid, mesic Aquic
	Udifluvents
	Fine-loamy, mixed, mesic Typic Hapludalfs
	Fine-silty, mixed, mesic Aeric Ochraqualfs
	Sandy-skeletal, mixed, mesic Typic Hapludolls
	Fine-loamy, mixed, mesic Cumulic Hapludolls
	Fine-silty, mixed, mesic Aquic Fragiudalfs
	Fine-silty, mixed, mesic Typic Hapludalfs
	Fine-silty, mixed, mesic Typic Argiudolls
	Fine-silty, mixed, mesic Typic Hapludalfs
	Fine-silty, mixed, mesic Typic Fragiudalfs
williamstown !	Fine-loamy, mixed, mesic Aquic Hapludalfs

SOIL SURVEY FRANKLIN COUNTY, INDIANA

CLASSIFICATION OF THE SOILS--Continued

Soil name	Family or higher taxonomic class
*Woolper *Wynn	Coarse-loamy, mixed, nonacid, mesic Typic Udifluvents Fine, mixed, mesic Typic Argiudolls Fine, mixed, mesic Typic Hapludalfs
Xenia	Fine-silty, mixed, mesic Aquic Hapludalfs